APC[™] Flash-Free Adhesive Coated Appliance System

Lunch & Learn Presentation





What is APC[™] Flash-Free Adhesive? *The Game-Changer In Orthodontic Bonding*

APC[™] Flash-Free Adhesive is the 4th generation of the APC[™] Adhesive Coated Appliance System, first introduced in 1991

Reinforcing our 22year leadership in the Orthodontic Bonding arena

APC Flash-Free Adhesive carries all the benefits of traditional APC Adhesives, plus some unique advancements

Innovative design and technology leading to gamechanging benefits

APC Flash-Free Adhesive is a **differentiator** for 3M Unitek appliances Leading to a more efficient and comfortable bonding process for the doctor and patient



Agenda

- The Product
- Product Value Proposition
- Customer Evaluation Input
- Frequently Asked Questions





APC[™] Flash-Free Adhesive Coated Appliance System The Product





APC[™] Flash-Free Adhesive Clinical Videos



Click on the image above to view the Comparison to Traditional Bonding Video



Click on the image above to view the Testimonial Video

NOTE: You must be connected to the Internet to view both videos.



How Does APC[™] Flash-Free Adhesive Work?

- Non-woven mat, which is saturated with resin adhesive, is attached to the bracket base.
- When bracket is pressed on tooth, the resin forms a fillet, or meniscus, around the edges.
- Due to lower viscosity and transparent color of the resin, there is no need to clean up the excess resin.







APC[™] Flash-Free Adhesive









Paste Adhesive



APC[™] Flash-Free Adhesive



APC[™] Flash-Free Adhesive Packaging

- Packaged in traditional APC[™] Appliance System packaging
 - 5/pack
 - 1 case kits
- New and unique blister design
 - Provides bracket stability
 - Suspended mat/adhesive substrate
- New artwork and graphics differentiated from APC[™] II and APC[™] PLUS System packaging, but part of the same family of APC brand products
 - New blister lid graphics
- Compatible with current IDS Storage and Dispensing System
 - 7x7 Patient Set-Up Tray
 - Dispensing Drawers
 - Back-Up Storage Unit











Technique Tips

- The brackets are placed in between two tapered bars inside the blister.
- If at any time it is difficult to pull the brackets straight out of the blister, it is best to rock the brackets side to side prior to pulling straight out of the blister.



Click on the image above to view the Removal Video







NOTE: You must be connected to the Internet to view both videos.



APC[™] Flash-Free Adhesive Coated Appliance System

Product Value Proposition





Product Value Proposition



APC[™] Flash-Free Adhesive Coated Appliance System

Note: Bonding time and failure rate are based on feedback received from early users as part of a 3M Unitek study.



No Adhesive Flash Clean-Up

- APC[™] Flash-Free Adhesive appliances incorporate a nonwoven mat, custom-cut to the shape of each bracket base, attached to the base, and soaked with the appropriate amount of methacrylate-based resin for each bracket
- When placed on tooth and pressed, some of the resin exudes from the mat and creates a smooth fillet or meniscus around the edges of the bracket
 - No paste adhesive flash is expressed
 - No flash clean-up is needed







Up to a 40% Reduction in Bonding Time per Bracket*

*Findings based on the following information:

Time study at 3 US & Canadian clinics (APC[™] Flash-Free, APC[™] II/APC[™] PLUS Adhesives)

Bonding time averaged over total number of teeth and cases bonded

Bonding time per bracket does not include bracket selection, preparation, tray set –up or tooth preparation time

Bonding time begins when bracket is first placed on tooth until it is ready to be light cured





Up to a 40% Reduction in Bonding Time per Bracket

APC[™] Flash-Free Adhesive vs. APC[™] II / PLUS Adhesive

Avg. Time to bond APC™ Flash- Free Adhesive Per Tooth (Seconds)	Avg. Time to bond APC™ II / PLUS Adhesive Per Tooth (Seconds)
14.58 seconds	26.98 seconds

APC[™] Flash-Free Adhesive vs. APC[™] II / PLUS Adhesive

Avg. Time to bond 20 Brackets with APC [™] Flash-Free Adhesive [*] (minutes)	Avg. Time to bond 20 Brackets with APC [™] II / PLUS Adhesive [*] (minutes)
5 minutes	9 minutes

*Time calculated to place, position and clean flash



Reliable Bond Strength – Predictable Performance





Reduced Bonding Steps & Variability



Reduced bonding steps can lead to reduced variability in the bonding process



APC[™] Flash-Free Adhesive Coated Appliance System

Customer Evaluation Input





Customer Evaluation Input



83% of the responses (123 of 149 respondents) have indicated that the APC™ Flash-Free Adhesive Coated Appliance System has a shorter bonding time in comparison to their current bonding system.



92.5 % of the customer evaluators were satisfied with the APC[™] Flash-Free Adhesive Coated Appliance System.



APC[™] Flash-Free Adhesive Coated Appliance System

Frequently Asked Questions





 Refer to the Frequently Asked Questions Sheet (REF 012-269)





1. What is the difference in bond strength between APC[™] Flash-Free Adhesive and other adhesives?

- A. The bond strength of APC Flash-Free Adhesive is comparable to that of Transbond[™] XT, APC[™] II and APC[™] PLUS Adhesive.
- 2. Is APC Flash-Free Adhesive compatible with other primers or sealants?
 - A. Yes, it is compatible with Transbond[™] brand primers as well as other primers or sealant based on bis-GMA monomer.
- 3. What is the shelf life of APC Flash-Free Adhesive system brackets?
 - A. APC Flash-Free Adhesive system brackets have a shelf life of 3 years (36 months) from the date of manufacture when stored at room temperature.



4. What is the best method to store the APC[™] Flash-Free Adhesive coated brackets?

- A. APC Flash-Free Adhesive coated brackets may be stored between 35° and 80°F (2° and 27°C), out of direct sunlight.
- 5. Can APC Flash-Free Adhesive coated brackets be stored in existing Inventory Dispensing System (IDS) units?
 - A. Yes, APC Flash-Free Adhesive coated brackets can be stored in existing IDS drawers and back-up storage units.

6. Is it necessary to clean the excess resin that flows out after seating the bracket?

A. No, the excess resin is not considered flash and cleaning excess resin may interfere with proper bonding.



7. Why is it not necessary to clean the excess resin when bonding with APC[™] Flash-Free Adhesive?

A. The resin contained in the nonwoven mat is very lightly filled. Rather than forming "clumps" at the bracket periphery, it wets the tooth surface to form a meniscus, or fillet.

8. Is bonding time shorter compared to traditional paste adhesive bonding systems?

A. APC Flash-Free Adhesive eliminates the flash clean-up step during bonding. Therefore, bonding time is shorter compared to the traditional paste adhesive bonding systems.

9. Does the excess resin stain?

A. The staining resistance of APC Flash-Free Adhesive is better than hydrophilic adhesives and similar to hydrophobic adhesives.



10. What are the components of the APC[™] Flash-Free Adhesive?

A. APC Flash-Free Adhesive contains a nonwoven mat and methacrylate-based resin.

11. What is the necessary time to cure the APC Flash-Free Adhesive?

A. APC Flash-Free Adhesive cures in the same amount of time as APC[™] II and APC[™] PLUS Adhesives.

12. What is the set time for APC Flash-Free Adhesive?

A. APC Flash-Free Adhesive has Camphoroquinone, which can cure under white light. Depending on the ambient light intensity in the operatory, APC Flash-Free Adhesive will still be usable following 15 minutes of exposure. It is best to avoid overexposure to light by opening the blister right before bonding, and by covering the patient's mouth with a mask if brackets have been placed but not positioned.



13. Can APC Flash-Free Adhesive coated appliances be used for indirect bonding?

A. Similar to APC II Adhesive coated brackets, APC Flash-Free Adhesive coated brackets can be used for indirect bonding. There is no need to clean the flash when the bracket is seated on the stone model.

14. What is the best method to take the brackets out of the blister?

- A. To remove the adhesive coated appliance from the blister, grasp the mesial/distal sides of the appliance with a bracket placement instrument and tilt it mesially/distally to release the bracket.
- 15. How is the bracket debonding and excess adhesive cleanup with APC[™] Flash-Free Adhesive compared to traditional paste adhesive bonding systems?
 - A. With APC Flash-Free Adhesive, bracket debonding is very simple, and most of the mat and resin remains on the tooth upon debonding. Because the resin is slightly filled, it is easy to clean off with a low speed / high speed bur and minimal force.



16. How does APC[™] Flash-Free Adhesive feel when first placed on the tooth?

- A. The mat is infused with lightly filled resin. The resin has a primer-like consistency and feels softer than a paste adhesive. It requires less force to position and fully seat the bracket onto the tooth.
- 17. How does APC Flash-Free Adhesive feel when pushing on the bracket to seat on the tooth?
 - A. When seating the bracket onto the tooth, there is little resistance. One will feel the mat squeezing the excess resin out around the bracket margins. Unlike traditional paste adhesives, it is not necessary to push hard on the bracket.

18. Can I reuse the bracket if it is accidentally knocked off the tooth?

A. If the bracket is accidentally dislodged from the tooth during positioning or dropped within the mouth, it can be recovered as follows: 1. Squeeze the resin from the nonwoven pad with a non-linting tissue and replace with Transbond[™] Supreme LV Low Viscosity Adhesive, or, 2. Completely remove the mat and resin from the bracket and replace with Transbond[™] XT Adhesive.



19. Is APC[™] Flash-Free Adhesive moisture tolerant?

A. No, this adhesive is not moisture tolerant.

20. Does APC Flash-Free Adhesive release fluoride?

A. No, this adhesive does not release fluoride.

21. Is APC Flash-Free Adhesive color changing?

A. No, this adhesive does not change color. It is a translucent adhesive and it will not change color.

